1044b UIC - EAST POPLAR OIL FIELD ENFORCEMENT CASE SDWA 1431 Folder ID: 13620 1971 Privileged

> 102939 MT/WY Coal Guich CWA FOIA appeal MT/WY FOIA appeal RIN-08-00097-07

Release intil

Region 8

13620

HUBER NO. 1

......

MURPHY OIL USA, INC.

WELL HISTORY

HUBER NO. 1

HUBER NO. 1

SUMMARY OF WELL HISTORY

WELL NAME & NUMBER:

Huber No. 1

LOCATION:

SE NE Section 10, T28N, R51E

WORKING INTEREST:

100:0000%

REVENUE INTEREST:

82.75000%

ELEVATION:

2100'

DRILLING CONTRACTOR:

M.R. Wagner Drilling .

SPUDDED:

February 29, 1952

DRILLING RIG RELEASED:

May 5, 1952

TOTAL DEPTH:

5776' Drilling TD 5753'

CASING:

1018' - 10-3/4" 40.5#, R-40

5753' - 7" 23#, 8rd.,

TUBING:

5640' - 2-7/8" 8rd., E.U.E.

PERFORATIONS:

5 jets per ft. 5500'-20', 5608'-1

5626'-38'

PBTD

5650' Model K Baker Cmt Retainer

INITIAL ACID:

Acidized with 500 gal. 5608'-17'

5626'-38'



BOARD MEMBERS

RICHARD A. CAMPBELL, CHAIRMAN CARL J. IVERSON, VICE-CHAIRMAN MILTON G. ANDERSON PAUL C. BUNN JOHN P. MOORE

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

THOMAS L. JUDGE. GOVERNOR GARY WICKS. DIRECTOR

·----

BOARD OF OIL AND GAS CONSERVATION

15 Poly Drive Billings, Montana 59101 August 6, 1975

RECEIVED MADE 1 1975

Mr. Dick Higgins Polumbus Corporation Suite 200 Three Park Central 1515 Arapahoe Road Denver, Colorado 80202

Dear Sir:

Mr. Buster Zimmerman phoned the third of August and informed me of a hazard around the Huber tank battery located on land which he farms. The location of the battery is the $NW_{\overline{2}}^{1}$ of Sec. 10, Twp. 28N., Rge. 51E., Roosevelt County, Montana.

I inspected the lease and found that there is oil on the ground in several places. I also found water in other pits that needs to be pumped out.

To correct this situation I am requesting that you erect a firewall around the tank battery to prevent any further damage to the surrounding farm land (Regulation No. 211). The dike must have the capacity of $l\frac{1}{2}$ times the tank battery storage which is 1600 barrels.

It is requested that the oil spills be cleaned up and that any water in pits be removed.

I am giving you until the 25th of August, 1975 to have the work completed or a shut-in order will be issued.

We have no jurisdiction to award Mr. Zimmerman damages. In order to promote a good relationship between oil producers and landowners, I suggest you contact Mr. Zimmerman and establish good working relations with him once again.

arrap

Joe Simonson

Yours trul

Field Inspector

cc: Buster Zimmerman Don Chisholm

DIVISION OFFICE 323 FULLER AVE. P. O. BOX 217 HELENA, MONTANA 59601 (406) 449-2611 TECHNICAL AND SOUTHERN FIELD OFFICE 15 POLY DRIVE BILLINGS, MONTANA 59101 (406) 252-5109 NORTHERN FIELD OFFICE 218 MAIN STREET P. O. BOX 690 SHELBY, MONTANA 59474 (406) 434-2422



PERMIT APPLICATIONS Form No. 2 GENERAL RULES 201, 202, 213, 216, 219, 233.1

≪ '

(SUBMIT IN QUADRUPLICATE)

TO

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA BILLINGS OR SHELBY

N O T I C B!
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

......

SUNDRY NOTICES AND REPORT OF WELLS

	•	1	ıl.	•	<u> </u>
Notice	of Intention to Drill		Subsequent Report of		
Notice	of Intention to Change Plans			Shooting, Acidizing, Cementing	-
	of Intention to Test Water Shut-off		Subsequent Report o		
	of Intention to Redrill or Repair Well	24		f Redrilling or Repair	
Notice	of Intention to Shoot, Acidize, or Cer	nent X	Subsequent Report o	· · · · · · · · · · · · · · · · · · ·	
Notice	of Intention to Pull or Alter Casing		Supplementary Well		
Notice	of Intention to Abandon Well		Report of Fracturing		<u> </u>
<u> </u>			<u> </u>		
	(Indicate Above	by Check Mark	Nature of Report, Notice,	or Other Data) December 17	19 68
Following is	a { notice of intention to do wor report of work done	k } on land	twned described		·

	MONTANA		Roosevelt	East Po	oplar
•••••••••••••••••••••••••••••••••••••••	(State)		· (County)	(Fi	eld)
Well No 1	10 (m. sec		28N	51E	(Meridian)
***************************************	(m. sec	2.)	(Township)	, (Range)	(Meridian)
The well is l	ocated 1980 ft. from	¥ } 1	ine and 660	ft from [5x] lin	e of Sec 10
		Br 1		W- J	
READ CARE (State name points, and all	FULLY es of and expected depths to objective other important proposed work, part	e sands; show siz icularly all detail	F PLAN OF WORK e, weights, and lengths of its results Shooting, Acidizing LS OF WORK	proposed casings; indicate myg	AD CAREFULLY
(2)	Pull tubing, rods, pum Fun cement bond log. Set Baker Model C pacl Perforate Heath format	p. kor at 4950	esult	the Heath formation	CEIVED SS
	. diditto licuta idiala		11.	XE.	3/115/18/18/18
(5)	P.un tubing rods and pu	mp.	•		11000
NOTE:	The presently produce obtaining the test of the both somes will be contained to the containing t	he Heath	Zone. Plans as	to future production of the Heath.	
Approved sul	bject to conditions on reverse of	form	Compan	. Polumbis Jr	7
Date	DEC 2 0 1968		B. 1 Vá	Jhan tek	_
	ORIGINAL COPY SIGNED	•	By		
-J	By: Gordon D. Lanouette Ti	tle	N .	20 C. A. Johnson B	1 de
•	District Office Agent		A -2 -2	enver, Colorado 80	~

(SUBMIT IN QUADRUPLICATE)

TO

MAY 12

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF MONTANA BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention-to Drill	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	χ
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	<u> </u>
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

	Notice of Intentio	n to Shoot, Acidize, c	or Cement	Subsequent Report of Aba	indonment	I
	Notice of Intentio	n to Pull or Alter Co	ising	Supplementary Well Histor	ry	
	Notice of Intentio	n to Abandon Well		Report of Fracturing		
1		(Indicate Abov	e by Check Mark N	ature of Report, Notice, or Ot	ther Data)	
				•	May 5	1969
Follo	wing is a Inotice	- ol-intention-to-do of work done	-work on land	leased described as	follows:	
	_		•	LEASE	Huber	•
	MONT	r a ni a		Roosevelt	East Pop	lar
	(Si	late)	······	(County)	(Field)	
Well	No 1	SE NE 10		28N (Township)	5	lE.
The v	vell is located	1980 ft. from	n N line and	660 ft from{_	E line of Sec. 10	
				 ORM THE WELL LOCATIO		
						BOUNDAKY
The e	elevation of the d	errick floor above t	he sea level is2	100	·····•*	
REAL	CAREFULLY		DETAILS OF	PLAN OF WORK	READ (CAREFULLY
(S) cemen	tate names of and ting points, and all	expected depths to ob other important propo	jective sands; show sed work, particularly	size, weights, and lengths of all details results Shooting, A	proposed casings; indicate cidizing, Fracturing.)	mudding jobs
				S OF WORK ESULT		
				• •	650	1175
		SEE ATT	ACHED		(0)	1,3)
					$\mathcal{C}^{r_{j}}$	7 (7)



Approved subject to conditions on reverse of form	Company E. A. Polumbus, Jr.
MAY 9 - 1969	By A Law
Date ORIGINAL SIGNED BY: By J. R. Hug. Supervisor	Title Vice-president Exploitation
District Office Agent Title	Address 220 C.A. Johnson Building
<u> </u>	



Denver, Colorado 80202

NOTE:—Reports on this form to be submitted to the District Agent for Approval in Quadruplicate

WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.

FORM No. 2

GENERAL RULES
201, 202, 213,
216, 219, 233.1

(SUBMIT IN QUADRUPLICATE)

TO

OIL AND GAS CONSERVATION COMMISSION

OF THE STATE OF MONTA BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF W

NOTICE!

THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE COMMISSION.

	CEAL PLACE.
Notice of Intention to Drill	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing
Notice of Intention to Dual Complete	x
	rk Nature of Report, Notice, or Other Data)

November 13, 1969 notice of intention to do work Following is a on land described as follows: LEASE HuberANA..... Popsevelt East Poplar (County) (State) (Field) SE NE Section 10 28 N. - R. 51 W 6th P. M. (Township) (Range) The well is located 1980 ft. from line and 660 ft. from { E }line of Sec10...... (Locate accurately on Plat on back of this form the well location, and show lease boundary.) The elevation of the derrick floor above the sea level is.....

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.)

DETAILS OF WORK RESULT

- 1. Pull rods, pump and tubing.
- 2. Cleanout sand from above retrievable bridge plug at 4917' and pull plug.
- 3. Run production packer with stinger and seal assembly to set in Model D at 5600'. Set production packer at 5480'. (This is to isolate the Charles "A" sone perfs at 5500-5520')
- 4. Run Baker cup-type packer on 2-1/2" tubing, with cross-over assembly.
- 5. Run pumps and rods. Produce Charles "B" sone (5608-17 and 5626-38') through annulus and Heath sone (4864-82') through tubing.

Approved subject to conditions on reverse of form	Company The Polumbus Corporation
NOV 2 1 1959 DateORIGINAL SIGNED BY:	By D. S. Low
J. R. Hug, Supervisor	Title Vice President - Exploitation
Title	Title
District Office Agent	Address 220 C. A. Johnson Building Denver, Colorado 80202
•	Denver, Colorado 80202

NOTE:-Reports on this Form to be submitted to the District Agent for Approval in Quadruplicate.

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(SUBMIT IN QUADRUPLICATE) in .

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OP THE COMMISSION.

OIL AND GAS CONSERVATION COMMISSION COMMISSI

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Change Plans

Notice of Intention to Change Plans

Notice of Intention to Test Water Shut-off

Notice of Intention to Redrill or Repair Well

Notice of Intention to Shoot, Acidize, or Cement

Notice of Intention to Pull or Alter Casing

Notice of Intention to Pull or Alter Casing

Notice of Intention to Abandon Well

Report of Fracturing - Heath Sand

X

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

December 15,

Following is a \not	ort of work done	and descri	bed as follows:	
•	•	LE	ASE Huber	
мс	ONTANA Roosevelt (State)		East	Poplar
	(State)	(County)		(Field)
Well No. 1	SE NE Section 10	T28N	P51W	6th P. M.
	(m. sec.)	(Township	(Range)	. (Meridian)
The well is located	1980 ft. from } } line	and 660 ft.	from { I line of s	Sec10
LOCATE ACCURA	TELY ON PLAT ON BACK OF THI	S FORM THE WELL L	OCATION, AND SHO	W LEASE BOUNDARY
The elevation of the	e derrick floor above the sea level is	2100' K. B.	<u></u>	
READ CAREFULL	Y DETAILS	OF PLAN OF WORK		READ CAREFULLY
	nd expected depths to objective sands; sail other important proposed work, partic			

DETAILS OF WORK

Pulled rods, tubing and anchor. Ran RTTS Packer and set at 4817'

Pressured annulus to 700 psi, pumped in 4000 gallons base pad; 4000 gallons My-T-Frac pad; 2500 gallons My-T-Frac with 1# per gallon 10-20 sand; 2500 gallons My-T-Frac with 1# per gallon 8-12 sand; 2500 gallons My-T-Frac with 3# per gallon 8-12 sand; 3500 gallons My-T-Frac with 4# per gallon 8-12 sand. Flushed with 2800 gallons. Breakdown pressure 2800 psi, maximum pressure 4400 psi, average pressure 3900 psi. Total Fracture Gallons 11,000 - Total Sand 26500# (Nov. 23, 1969).

Production before treatment - 27 barrels of oil and 105 barrels of water per day.

Production after treatment - 66 barrels of oil and 277 barrels of water per day.

Production alter treatment - 55 barrels of oi	l and 277 barrels of water per day.
Approved subject to conditions on reverse of form	Company THE POLUMBUS CORPORATION
Date OFIGINAL SIGNED BY:	By Do Low
By L. B. Hug. Supervisor	Title Vice President - Exploitation
Title District Office Agent	Address 220 C. A. Johnson Building
2.5	Denver. Colorado 80202

NOTE:-Reports on this Form to be submitted to the District Agent for Approval in Quadruplicate.

(SUBMIT IN QUADRUPLICATE)

NOTICE FORM BECOMES ED BY AN ACCOMMISSION. STONEIV

OIL AND GAS CONSERVATION COMMIS OF THE STATE OF MONTANA

GAS CONS. COMM. STATE OF MONT. BILLINGS OR SHELBY BILLINGS SUNDRY NOTICES AND REPORT OF

Notice of Intention-to Drill		Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	ļ	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	<u> </u>	Supplementary Well History
Notice of Intention to Abandon Well	}	Report of Fracturing
" " to Dual Pump Well	х	·

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data) July 22, 1971 Following is a notice of intention to do work on land report of work done owned described as follows: leased LEASE Huber Roosevelt East Poplar MONTANA (County) (State) · T28N
(Township) NE Section 10 M. P. M. R51E The well is located 1980 line of Sec. 10 LOCATE ACCURATELY ON PLAT ON BACK OF THIS FORM THE WELL LOCATION, AND SHOW LEASE BOUNDARY The elevation of the derrick floor above the sea level is 2100' KB READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY (State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work, particularly all details results Shooting, Acidizing, Fracturing.) DETAILS OF WORK RESULT It is our intention to produce both the Charles and Heath zones in this well by setting a packer between the zones, running two strings of tubing and setting two pumping units. The work is to be accomplished in the following manner. Details Attached Company The Polumbus Corporation Approved subject to conditions on reverse of form JUL 2 6 1971 "ORIGINAL SIGNED BY Title Vice President Judson D. Sweet, Petroleum Englneer. District Office Agent Title . Address 1000 Capitol Life Center Denver, Colorado 80203

COMMISSION USE ONLY API WELL NUMBER STATE COUNTY WELL

NOTE:-Reports on this form to be submitted to the District Agent for Approval in Quadruplicate . WHEN USED AS PERMIT TO DRILL, THIS EXPIRES 80 DAYS FROM DATE OF APPROVAL

WORKOVER

E. A. ILLUMBUS, JR. - HUBER NO. 1 LL EAST POPLAR FIELD ROOSEVELT COUNTY, MONTANA

3/3/69	Pulled rods and tubing, ran cement bond and correlation log. Set retrievable bridge plug at 4980' and perforated Heath 4870-74 with one shot per foot.
3/4/69	Ran packer on tubing and set at 4780'.
3/5/69 to 3/7/69	Swabbing water with a trace of oil.
3/7/69 to 3/8/69	Prepared to squeeze perforations - Halliburton truck broke down. Bad weather prevented work until 3/9/69.
3/9/69.	Squeezed perforations with 100 sacks DOC. SI overnight.
3/10/69	Released packer, circulated cement out of hole. Well filled with water with trace of oil and overflowed at indeterminate rate.
3/13/69 to 3/25/69	Put well on pump and tested to tanks. Produced about 15 barrels water per hour with slight trace of oil.
3/25/69 to 3/31/69 .	Moved in rig. Ascertained bridge plug was leaking. Ran new bridge plug to hold. Swabbed well down.
3/31/69	Perforated Heath from 4864-82 with 20 holes. Swabbed well dry
4/1/69	Acidized with 500 gallons followed with 200 barrels treated lease oil - displaced oil at 2½ barrels per minute at 2550psi.
4/2/69	After swab testing, put well on pump.
4/3/69 to 4/27/69	Testing on pump. Averaged approximately 30 BOPD and 8 BWPD.
4/28/69 to 5/2/69	Moved tools back on well, pulled rods and tubing and released bridge plug. Well again filled with water. Ran retrievable bridge plug and packer. After numerous settings, determined that water is coming from below 5468 feet, or from the Charles "A" zone.
5/3/69	Set new bridge plug 4917, packer at 4816, fraced Heath with 15000 gallons salt water and 9500# sand. Broke formation with 4300 psi, pumped in water and sand at 12.5 barrels per minute at average pressure of 3400 psi. Immediate SI pressure 2050 psi, 5 min pressure 1800 psi, 10 min pressure 1700 psi. Let set overnight.
5/4/69	Pulled packer and reran tubing. Ran rods and placed on pump. Started pumping at 6:00 p.m.
5/5/69 to 5/6/69	While recovering load water, pumped oil at rate of 230-260 barrels per day. Currently about 25% water with an estimated

NOTE: The bridge plug has been left in the hole pending a decision as to future plans to produce the Charles.

barrels per day. Currently about 25% water with an estimated 100 barrels of load water to be recovered.

- 1. Pull retrievable bridge plug at 4917' which now isolates the Charles from the Heath.
- 2. Set Baker Model "D" packer at approximately 5480'.
- 3. Run 2 7/8" streamline tubing with stinger and seal assembly to set in present Model "D" at 5600' (These two Model "D" packers will isolate the Charles "A" zone perfs at 5500-5520'). Latch into upper Model "D".
- 4. Run 2 3/8" streamline tubing to approximately 5000' and latch into parallel string anchor.
- 5. Run pumps and rods. Produce Charles "B" zone (5608-17 and 5626-38') through 2 7/8" tubing and Heath zone (4864-82') through 2 3/8" tubing.
- 6. Set second pumping unit and put on production.

duler #1

Form No. 2 GENERAL RULES 201, 202, 213, 216, 219, 233,1 (SUBMIT IN QUADRUPLICAT

TO

OF THE STATE OF MONTANA CAS COME COMME. OIL AND GAS CONSERVATION (250) MISSED

SUNDRY NOTICES AND REPORT OF

NOTICE

THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE COMMISSION.

Subsequent Report of Water Shut-off
Subsequent Report of Shooting, Acidizing, Cementing
Subsequent Report of Altering Casing
Subsequent Report of Redrilling or Repair
Subsequent Report of Abandonment
Supplementary Well History
Report of Fracturing
Subseq.Rept.of Dual Completion X

			•	,, 19 <u>7</u> 1
Following is a \{\frac{\text{notice of intention}}{\text{report of work don}}\)	to do work on land leas	ted described as fe	ollows:	
•	•	LEASE	Huber	
MONTANA (State)	Roose	velt	E. Pc	plar
(State)	(Coun	ity)	(1	field)
Well No. 1 S	E NE Sec. 10	28N	51E	M.P.M.
The well is located 1980 f	t. from $\left\{\begin{array}{c} \frac{N}{m} \\ \frac{1}{m} \end{array}\right\}$ line and $\frac{660}{m}$	0ft. from	E line of Sec	10
LOCATE ACCURATÉLY ON PLAT				
The elevation of the derrick floor at	pove the sea level is210.0.	KB	 ·	
READ CAREFULLY	DETAILS OF PLAN	of work	RE	AD CAREFULLY
(State names of and expected depths cementing points, and all other important	to objective sands; show size, we proposed work, particularly all deta	ights, and lengths of pails results Shooting, Ac	proposed casings; indidizing, Fracturing.)	licate mudding jobs,
	DETAILS OF U	NUDK		•

RESULT

See Attached

Approved subject to conditions on reverse of form DEC 1 0 1971 Date	Company THE POLUMBUS CORPORATION By			
By Judson D. Sweet, Petroleurn Engineer	Wise President			
District Office Agent Title	Title Vice President Address 1000 Capitol Life Center			
COMMISSION USE ONLY API WELL NUMBER NOTE:—Reports on this	Denver, Colorado 80203 form to be submitted to the District Agent for Approval in Quadrupli			
WHEN USED AS PERM	IIT TO DRILL, THIS EXPIRES 90 DAYS FROM DATE OF APPROVAL.			

OVER

ation 3 REPORTER PRTG. & SUPPLY CO.

DETAILS OF WORK RESULT

During period 9/25/71 to 10/13/71, the following work was performed to recomplete this well as a dual producer from the Heath and Charles.

- 1. Pulled bridge plug at 4917' which isolated the Heath and Charles.
- 2. Drilled out old Model D at 5600' and set new Model D at 5585' (Could not get through old Model D).
- 3. Set second Model D at 5459' to isolate Charles A perfs. @ 5500-5520 between these packers.
- 4. Ran 2 7/8" streamline tubing w/seal assemblies for these Model D packers and latched into upper Model D.
- 5. Swabbed Charles dry, noted no fillup. Pumped 250 gal 15% HCI acid into Charles to cleanup.
- 6. Swabbed at rate of 10 Bbl/Hr 10-20% oil.
- 7. Ran 2 3/8" streamline tubing, latched into parallel anchor at 4947:
- 8. Ran rods and pumps in two strings of tubing.
- 9. Set second pumping unit.
- 10. Charles on production 10-14-71, Heath on production 10-26-71. Charles producing 35 BO + 320 BWPD from B-1 & B-2 perfs 5608-17 and 5626-38.

 Heath producing 15 BO + 240 BWPD from perfs 4864-82.

Form 20 Rev. 8-92 Submit In Quadruplicate To:

Morita Board of Oil and Gas Conservation

1520 East Sixth Avenue

Helena, Montana 59620-2301

ARM 36.22.307 ARM 36.22.605 ARM 36.22.1308

Notice of Intent to Change Operator

The undersigned Transferor hereby notifies the Board of Oil and Gas Conservation of its intention to transfer ownership and/or operation of the following wells to the undersigned Transferee:

Lesse Name: Huber		Lesse type: (Private, State, Federal, Indian) Private
County: Rooseve	elt	Field name: East Poplar
Description of we location of the we	ells: (Include official well name and number as reflected to including quarter-quarter section, footage measurem	d on Board of Oil & Gas Conservation records, API well number, and exact nents, Section, Township, and Range.)
	·	
	1, Huber No. 2, Huber No. 3, ned sheet for information	, Huber No. 4-A, and Huber No. 5-D
Effective		operator from Murphy Exploration
	ction Company to	
operator of record the Transferor co associated equipre approved by of the	Transferor's Statement: te the Transferce named herein as the owner and/or d of the above described well(s). I acknowledge that continues to be responsible for said well(s) and all ment and facilities until such time as this transfer is the Montana Board of Oil and Gas Conservation. I formation contained herein is true and correct:	Transferee's Statement: I hereby accept the designation of operator/owner for the above described well(s). I understand that this transfer will not be approved until the Transferee has complied with the Board's bonding requirements. I acknowledge that under Section 82-11-101 MCA, the Transferee herein is responsible for the costs of proper plugging and restoration of the surface of the well(s) described above. I certify that the information contained herein is true and correct:
Company	Murphy EXPRO	Company
Street Address	131 South Robertson Street	Street Address
P.O. Box	Box 61780	P.O. Box
City, State, ZIP	New Orleans, LA 70161-996	9 City, State, ZIP
Signed		Signed
Print Name	Sidney W. Campbell	Print Name
Title	Manager Onshore Operations	Title
Telephone	(504) 561-2594	Telephone ()
	DOARD	USE ONLY
Approved	Duc	Field Office Review • Date Initial Inspection Records Review
	Name Title	Operations
Oper, No.	Bond No.	Oper. No. Bond No.

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		_		4		1		;	Paul T.	Smith	, Chairman			
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	all available									1	D. SNYDE			
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LEASE Huber	WELL NO
LOCATION SENE Sec. 10-28N-51E	FIELD Easx Poplar
COUNTY ROOSevelt	
1 1 1	TD <u>5776'</u> KB 2104'
	DF GL
	· · · · · · · · · · · · · · · · · · ·
10 SURF. CSG.	
a <u>1010</u> with	COMPLETION INTERVALS:
500 SACKS.	Top of Dakota @ 3120'
ONCKO!	
	WELL HISTORY:
	Well completed May 5, 1952
Olock Sax in Heath	in Madison Line (5608-17')
010.4 Sqx in Heath (4858-82') TOC @ 4970'	(5626-381) * Old perfs
TOC @ 4970'	Sgrd and reperfed
Charles Soul w/ 50 SYS	Recompleted in Heath (4864- 82') in ("/69) but sord off
Dingman perily (Good Say)	82) in ("/69) but sord off
madison	4/ 100 SK cat in (3/75)
= (5608-16')	Pumping Assembly: 13 x6, e 5611
Baker molei K" unt retainer @ 5650'	5NO 5677'
$\frac{7}{7}$ " csg. a $\frac{5753}{1}$	88.3/8.10 gs
w/ <u>500</u> sxs.	131-12" rods
	REMARKS: 7" csg details:
	55 its 23 4/1 2408'
	78 20 4/fx 3350'
SAM 620	

TACHMENT	
EASE Huber	WELL No.#1
DEATION LE NE	FIELD East Poplar
OUNTY Roosebult	STATE <u>Mondona</u>
tea 1 f	TD 5776' KB 2104'
	DF GL
103/4" SURF. CSG.	
a /0/0 ' WITH	COMPLETION INTERVALS:
500 SACKS.	· · · · · · · · · · · · · · · · · · ·
178 35 278" 7-55 46	
58 - 7/8" (0 ds w/ 2" pu,	· ·
131. 3/4" 10 45	·
	•
THEAT!	WELL HISTORY:
1 (4850 - 82°) Sped 41 100 5×5(475) well (applehed may 5, 1952 in
	Madison (5608-17') (5626-38')
TOCO 4970'	1 (5500-20')
	Sazd Charles" A" + Heall (2/15)
(5500-20') Sqrd w, 100575	s(4/15) Sq.2 & 0-1"+"B-2" (6/77) +
Boxer A/C @ 5580'	reperfed '9-1" (5608-16')
B-1" (5608-16") Reperfed (4)	777)
B-2" (5626- 38°) Sq2d 0x1	<u> </u>
Baker model" K" retainer	•
6 2620,	
$\triangle \frac{7}{2} \text{ csg. a } \frac{5753}{2}$	
W/ <u>500</u> SXS.	REMARKS: 7" (59 detal
	55 ps 23°/41 2408'
	78 xs. 20 9/44 3350"
	10 x3, 20 141 3330
•	

HUBER NO. 1

COMPLETION DATA

3-14-52	Cemented surface with 500 sacks
4-30-52	Cemented production string 500 sacks
5-16-52	500 gals. Dowell XFW, 5609'-17', 5623'-38' flushed with 33 bbls. (down tubing)
5-06-52	McCullough Bullet

55 jts. 23# 2408' 78 jts. 20# 3350' Casing:

1 - 13' stringer - 2 tubing seal nippled 1 - 2½" EUE Baker Safety jt. 1 jt. above F 1 - tubing seal nipple locator with extens 1 - 10'x2" NU 10 rd. perf. prof tube Tubing

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SCHLUMBERGER TOPS

Well Name: <u>HUBER NO. 1</u>

Location: SE' NE' Section 10, T28N, R51E

Greenhorn	2330
Muddy	2908
Dakota	3120
Ellis	3900
Piper	4254
Amsden	4691
Otter	5015
Kibbey	5130
Charles	5383
TD	5776

FORMATION RECORD

	•		
FROM	TO	TOTAL FEET	FORMATION
0 660	0	660	Shale Shale
870	870 1209	210	Shale & Sand
1209	1590	339 381	Shale
1590	2214	624 ·	Shale w/strks Sand
2214	2328	114	Shale
2328	2494	166	Sand w/strks Shale Shale
2494	2715	221	Black Shale.
2715	2810	95	Shale & Sdy stks
2810	2873	63	Shale & Bdy Stks
2873	2894	21	Core #1 Shale hard dk grey
2894	2906	12	Shale Shale hard dk grey
2906	2945	39	Sand (Muddy)
2945	3205	260	Shale
3205	3305	100	Shale & Sdy Shale
3305	3377	72	Sdy Lime & Shale
3377	3385	8	Sand
3385	3414	29	Sandy Shale
3414	3431	17	Sand
3431	3608	177	Sand & Shale
3608	3634	26	Sky Lime & Shale
3634	. 3660	26	Sand
3660	3670	10	Lime
3670	3720	50	Sand & Shale
3720	3843	123	Shale
3843	3974	131	Sdy Shale
3974	. 3999	25	Shale
3999	4043	44	Shale & Shell
4043	4137	94	Shale
4137	4304	167	Shale & Lime Strk
4304	4478	174	Shale
4478	4742	264	Shale with Lime Strk
4742	4839	97	Lime, Sand & Shale
4839	4900	61	Sand & Red Shale
4900	5005	105	Shale & Sand Shells
5005	5028	23	Sdy Shale
5028	5073	45	Shale & Lime
5073	5397	324	Shale & Sdy Lime ·
5397	5449	52	Shale & Lime ·
5449	5484	35	Anhydrite & Lime
5484	5513	29	Sdy Shale
5513	5539	26	Core #2 Rec 25': 7' oolit:
			lime & xyline limestone o:
		•	saturated, 6' anyhydrite,
			dolomite fractured water,
			anhydrite, 6' limestone w:
			one small fracture with sl
			of oil & 6" black shale or
		~ ^	bottom.
5539	5598	59	Shale & Lime

Page 2 Formation Record

5598	5603	5	Sdy Shale
5603	5608	5	Grey Shale & lime
5608	5624	16	Anhydrite & Lime
5624	5776	152	Anhydrite, lime
TD	5776		Limestone

Producing	Horizon	Formation	Record			
5608	5617			Xy Line	Limestone B	-1
5626	5638			Xy Line	Limestone B	-2

WORKOVER HISTORY NO. 2

Lease & Well Number: Huber No. 1

Field: East Poplar County: Roosevelt State: Montana

Well Location: SE NW Section 10, T28N, R51E

STATUS PRIOR TO PRESETN JOB:

Date Completed: May 5, 1952

Producing Zone: Heath Sand Perforations: 4864'-82' KB 1'

T.D. 5953' PBTD: 5650' Latest Test: 29 BOPD 94 BWPD

JUSTIFICATION OF WORKOVER:

Believe well formation plugged off, try to re-establish a better rate.

SUMMARY OF WORKOVER:

- 11-22-69 Rigged up, pulled rods, released Baker Anchor. Started out of hole with tubing.
- 11-23-69 Finished pulling tubing, ran back Halliburton RTTS PKR and set at 4817' KB. Rigged up well head to frac.

 My-T-Fraced Heath Sand. Pressured annulus to 700 psi, pumped in 4000 gallons base pad; 4000 gallons My-T-Frac pad; 2500 gallons My-T-Frac with 1# per gallon 10-20 sand; 2500 gallons My-T-Frac l# per gallon 8-12 sand; 2500 gallons My-T-Frac with 3# per gallon 8-12 sand; 3500 gallons My-T-Frac with 4# per gallon 8-12 sand. Flushed with 2800 gallons. Breakdown pressure 2800 psi, maximum 4400 psi, average pressure 3900 psi. Total fracture gallons 11,000, total sand 26,500#'s. Shut well in for 24 hours.
- 11-24-69 Released RTTS packer and re-set at 4819' KB, flanged up well head, ran rods and plunger. Rigged down, put well on pump.

Recap of Workover:

Final Perfs: 5626'-38', 5608'-17', 5500'-20', all

packed off 4864'-82' open

Final PBTD: 4917' (Retrievable Bridge Plug)

Production before treatment - 27 bbls oil & 105 bbls water per day.

Production after treatment - 66 bbls oil & 277 bbls water per day.

- 3-03-69 Pulled rods and tubing, ran cement bond and correlation log. Set retrievable bridge plug at 4980' and perforated Heath 4870'-74' with one shot per foot.
- 3-04-69 Ran packer on tubing and set at 4780'.
- 3-05-69 to
- 3-07-69 Swabbing water with a trace of oil.
- 3-08-69 Prepared to squeeze perforations Halliburton truck broke down. Bad weather prevented work until 3-09-69.
- 3-09-69 Squeezed perforations with 100 sacks DOC. SI overnight.
- 3-10-69 Released packer, circulated cement out of hole. Well filled with water with trace of oil and overflowed at indeterminate rate.
- 3-13-69 thru
- 3-25-69 Put well on pump and tested to tanks. Produced about 15 barrels water per hour with slight trace of oil.
- 3-25-69 thru
- 3-31-69 Moved in rig. Ascertained bridge plug was leaking. Ran new bridge plug to hold. Swabbed well down.
- 3-31-69 Perforated Heath from 4864-82 with 20 holes. Swabbed well dry.
- 4-01-69 Acidized with 500 gallons followed with 200 barrels treated lease oil displaced oil at $2\frac{1}{2}$ barrels per minute at 2550 psi.
- 4-02-69 After swab testing, put well on pump.
- 4-03-69 thru
- 4-27-69 Testing on pump. Averaged approximately 30 BOPD and 8 BWPD.
- 4-28-69 thru
- 5-02-69 Moved rig back on well, pulled rods and tubing and released bridge plug. Well again filled with water. Ran retrievable bridge plug and packer. After numerous settings, determined that water is coming from below 5468', or from the Charles "A" Zone.
- 5-03-69 Set new bridge plug 4917', packer at 4816', fraced Heath with 15,000 gallons salt water and 9500# sand. Broke formation with 4300 psi, pumped in water and sand at 12.5 barrels per minute at average pressure of 3400 psi. Immediate SI pressure 2050 psi, 5 min. pressure 1800 psi, 10 min pressure 1700 psi. Let set overnight.

- 5-04-69 Pulled packer and reran tubing. Ran rods and placed on pump. Started pumping at 6:00 p.m.
- 5-05-69 While recovering load water, pumped oil at rate of 230-260 barrels per day. Currently about 25% water with an estimated 100 barrels of load water to be recovered.

NOTE: The bridge plug has been left in the hole pending a decision as to future plans to produce the Charles.

WORKOVER HISTORY NO. 3

Lease & Well Number: Huber No. 1

Field: East Poplar County: Roosevelt State: Montana

Well Location: SE NW Section 10, T28N, R51E

STATUS PRIOR TO PRESENT JOB:

Date Completed: May 5, 1952

Producing Zone: Heath Sand Perforations: 4864'-82'

T.D. 5953' KB PBTD: 5650' CIBP KB: 9'

Date of Last Workover: November 24, 1969 (My-T-Frac)

Latest Test: 15 BOPD 385 BWPD

JUSTIFICATION OF WORKOVER:

Dual complete well to put Madison B-1 and B-2 back on production with Heath.

SUMMARY OF WORKOVER:

- 9-25-71 Moved Prather Rig in. Pull out of hole with rods, rig to pull tubing. Anchor released, start out with tubing. Start in with BP Retriever. SDFN.
- 9-26-71 Resume running retrieving tool. In with 2-7/8", 8rd. tubing. 5 jts 2-7/8" Hydrill tubing picked up, tagged sand at 4876', rig up circulating equipment. Start circulating sand off bridge plug. Sand off, bridge plug released. Tubing plugged, reverse circulate. Well flowing oil to pit, circulating water down casing to kill well. Start out with tubing and BP. Will get truck in am to kill well with heavy salt water.
- 9-27-71 Turned well to flow line, flowing Heath oil. Well dea start pulling tubing. Out with bridge plug, start in with scraper. Well flowing. In with scraper, tagged Model D at 5600' KB. Circulated water down casing, start out with scraper laying down all 2-7/8" pipe. SDFD.
- 9-28-71 Resume laying down tubing. Out with tubing and scraper. Start in with 2-7/8" production string. Shut down, have to overhaul slips. Resume running long string. Cannot get into Model D. Circulate and work tubing. Start out with tubing to check seal assembly. Out with tubing, seal assembly show imprint of slip segment lost on last workover. SDFD

- 9-29-71 Run magnet on sand line to try and get slip segment. Ran magnet several trips, no success. Rig up barbed spear to try and pull segment losse. Start in with barbed spear on rods. Have to go to #3 to get more rods. Working spear through Model D. Start out with spear, cannot jar slip loose. Rig up Baker Sand Line Drill to knock out "D". Start Drilling. Made 3 runs, getting iron from Model "D". SDFD.
- 9-30-71 Resume sand line drilling, Baker Rep. believes Model "D" knocked out.
- 10-01-71 Start in with bit & scraper to clean out hole.

 Start circulating and drilling. Cannot make any hole, drilling on iron. Shut down for day, rig tongs will not stand up to rotating tubing, will have to get power sub and resume drilling in am.
- 10-02-71 Power sub on location, rig up to drill. Very little hole made, getting iron, rubber and frac sand. Cannot make any hole, start out with bit. Rig to run Baker Sand Line Drill. Sand line drill picked up another load of iron. Baker Rep thinks it's the CIBP. Shut down to re-check tally and down hole equipment. Shut down for day, will run depth-ometer to verify depth.
- Make run with Baker Sand Line Drill. Depthometer indicated depth of approx. 5600'. Start out with Baker Sand Line Drill. Drill picked up a load of iron. Drill picked up a load of iron and cement. Drilling on cement, lay down sand line drill. Rig to run bit and start in with bit. Rig up circulating equipment. Start drilling on cement at 5605'. Drilled 5' cement, dropped 10', drilled 10' cement and stringers to CIBP at 5650' KB. Circulated hole clean. Start out of hole with tubing. SDFD.
- 10-04-71 Resume pulling tubing, out with tubing. Rig up wireline to set "D", set at 5585' KB. Start in with production string as follows:

Seal Assembly 5585'
4 jts 2-3/8" EUE 8rd tbg.
Model "N" Packer 5459'
16 jts 2-7/8" EUE 8rd tbg
Dual string anchor 4947'
28 jts 2-7/8" PH-6 Hydrill tbg.
2½" Seating NIpple 4005'
119 jts 2-7/8" PH-6 Hydrill tbg.
1 - 6' 2-7/8" Hydrill Pup

1 - jt 2-7/8" PH-6 Hydrill tubing. Tubing landed, 20,000 # tension on Model "N" Head bolted on, adapter installed to run 2-3/8" CS Hydrill Tubing (second string). Start picking up and running 2-3/8" string. SDFD.

- 10-05-71 Resume picking up 2-3/8" tubing. 2-3/8" CS
 Hydrill tubing stung into dual anchor and landed
 with 17,000# tension. Cement returns indicate
 Madison may be cemented off. Rig crew start to
 gather rods and change out 7/8" boxes.
- 10-06-71 No work today waiting on swab cups.
- 10-07-71 No work waiting on swab cups.
- 10-08-71 Tubing swabbed dry. 30 min. shut in, no fillup. 30 min. shut in, no fillup. 30 min. shut in, no fillup. Shut down for day.
- Rig up wireline to reperforate. Could not get in hole with gun, lost 9' section off bottom of gun. Fluid level hit at 400' from surface. Oil on part of gun that came out. Decided not to perforate as we have fluid entry. Start out of hole with 2-3/8" Hydrill string. Out with 2-3/8" string, rig up to pull 2-7/8". Start out with 2-7/8" tubing. Out with long string, seal assembly on Model "N" tore up, called Baker to get redressed. Could not get Baker, SDFD.
- 10-10-71 Remove perforating gun section, start in with 2-7/8" tubing, move seating nipple to 4914'. 2-7/8" tbg. in head on, flanged up. Tubing landed with 18,000# tension. Rig up to swab. Having trouble getting swab cups down. Getting only 1 run per cup. Swabbed tubing to seating nipple in 5 runs. Swabbed 1 run per hour, getting 700' fillup, water per hour. Swabbed until 5:00 pm, same rate, SDFD.
- Swabbed trace of oil, swabbed dry in 4 pulls. Rig up Dowell to acidize with 250 gal. 15%. Took four hours to move total of 8 barrels formation water and 6 barrels acid into formation. Well broke from 2500 to 2400 on last ½ barrel of acid put in. 15 min shut in, 600 psi. Released pressure, well began flowing small amount of water. Started swabbing. Swabbed to 4000' cups tearing up. Swabbing estimated 10 barrels per hour, from 3000' (fluid staying here) estimate 10% oil. Have to change cups every run. Fluid level at 2500'. Swabbing 10 to 20% oil. Tail end of run is approximately 5% oil. Swabbing 500' per run, 10 to 20% oil. Fluid staying at 3000'.
- 10-12-71 Fluid at surface, made 1200' swab run, 500' oil, 700' water. Rig to run 2-3/8" tubing string. Tubing as follows:

Anchor stinger

3 - jts 2-3/8" Hydrill CS Tubing

Seating Nipple

158 jts 2-3/8" Hydril CS Tubing

1 - 8', 1 - 10', 1 - 4' pup

1 jt 2-3/8" 2-3/8" Hydrill CS Tubing

Tubing landed with 20,000# strain. Flanged up

head. Start in with 2" pump and 7/8" rods, change
all rod couplings to 7/8" slim-hole. SDFD. Rod

couplings breaking hard.

10-13-71 Resume running rods on both tubing strings. Well hung on, released rig. New flow line hook-up completed, started well pumping Madison Zone. Will start Heath Zone pumping when 456 Unit is set.

Re-cap of Workover:

Final Perforations: Heath 4864'-82'; A Zone 5500'-20' (isclated); B-1 Zone 5608'-17'; B-2 Zone 5626'-38'.

Final PBTD 5650 (CIBP)

Initial Potential: Madison 30 BO 360 BWPD Heath 15 BO 360 BWPD

WORKOVER HISTORY NO. 4

T 0 2 2 2	_	Ma 1 1	Number:	U.bo-	NI a	1
Lease	λv	метт	Number:	nuber	NO.	1

Field: East Poplar County: Roosevelt State Montana

Well Location: SE NW Section 10, T28N, R51E

STATUS PRIOR TO PRESENT JOB:

Date Completed: May 5, 1952

Producing Zone: Heath Sand & Madison B-1 & 2

Perforations: Heath 4864'-82': A Zone 5500'-20'; B-1 Zone

5608'-17'; B-2 Zone 5626'-38'

T.D. 5953' KB PBTD 5650' KB 9'

Date of Last Workover 10-13-71 Dual Completion

JUSTIFICATION OF WORKOVER:

Temporarily abandon Heath production except for periodically flowing off load oil and increasing production on Madison by using longer stroke pump.

SUMMARY OF WORKOVER:

- 8-10-72 Rigged up, pulled 3/4" rods on Heath string and layed them down. Pulled 7/8" rods in Madison string to coupling break at 4380'. Went in with grapple, got on box twice but tool pulled off. Came out to check too. Coupling is so worn we cannot catch it. Shut down until morning, will get mouse trap from Murphy to try to fish rods.
- Ran Murphys mouse trap, could not get it on. Came back out made up tool to fit broken coupling by filing down a smaller grapple. Went back in latched onto fish, could not get pump to unseat. Worked rods for 1/2 hour, tool pulled off. Will have to strip out tubing. Called Acme Tool for slip type elevators. Came out with 2-3/8" Hydrill tubing string and layed it down. SDFD.
- 8-12-72 Worked tubing (2-7/8" Hydrill PH-6 String) for one hour trying to get loose from Model "N" packer. Tong snubber broke while we had 15 to 20 rounds torque in, floor man got hit with tongs and broke his arm, took man to hospital in Poplar. SDF day.
- 8-13-72 No work today, crew repairing damage to tongs & rig.
- 8-14-72 Worked tubing to try to get loose from Model "N" could not get out. Rigged to run rods and Acme hydraulic jars to try again for pump. Got overshot

on and jarred hard for 40 minutes, overshot pulled off. Believe no-go ring on pump is jammed down in seating nipple. Called for order, shut down for day.

- Worked tubing for 2 hours, put 15 rounds in at 43,000#, got 4 back. Repeated this procedure pulling one additional point each time. Gradually got more torque back until we reached 52,000# when we were getting all back. Believe loss we did get was making up 2-7/8" EUE, 8rd., tubing below dual anchor. Shut down for orders.
- 8-16-72 Waiting on orders.
- 8-17-72 Waiting on orders.
- 8-18-72 Ran sand line and tagged rods, flagged line. Hung tubing at 40,000# and turned left to try to get deep back-off. 8' sub on top of string broke out. Screwed sub back in, turned left and sub broke out again. Screwed back in as tight as we could. Turned tubing left 25 turns, acted like something came loose, picked up tubing but we're still hung. Tried several more time believe tubing is spinning in packer but won't release. Called Dia-Log for back-off, has to wait 4 hours before they could be on location. After Dia-Log got on location we picked up tubing to remove 8' sub on top and tubing parted 1 joint and one 6' sub below surface. (Must have backed off our last try). Had tough time getting screwed back in but finally did. Rigged up Dia-Log to back off tubing above rod break. Tagged rods at 4380', picked collars at 4331', 4298' and 4364'. Torqued tubing 5 rounds to left and fired string shot. Backed off tubing at 4364'. Pulled tubing out.
- 8-19-72 Started in with wash pipe to swallow tubing and rods to dual string anchor. Took all morning to pick up pipe and clean it out. Ran tubing on top of wash pipe to anchor. Cut tubing off 1 joint up from dual anchor. Pulled tubing to fish and shut down for day as we did not have time to strip rods, tubing and washpipe out before dark.
- 8-20-72 Backed off rods and got everything but hold-down assembly. Layed rods down as they were to worn to reuse. Pulled tubing out of washpipe. Pulled wash pipe and layed it down. Went back in with tubing and right hand release overshot. Shut down for night as could not get Dia-Log before morning, to back off again.

- Rigged up Dia-Log to back off tubing. Located Model "N" Packer at 5433' to 5437', located collars at 5401', 5370' and 5469'. Backed off tubing at 5401'. Came out with tubing; left 1 jt. on packer. Went back in with Baker On-Off tool on bottom of string and took out dual anchor. Landed tubing in donut with 20,000# tension. Made up well head and ran rods and pump. Hung on rig blocks as we need crew to make up new bridle and move walking beam ahead.
- 8-22-72 Rig crew clamped off rods, cleaned up and rigged down. Released rig. Roustabout crew refitted well head to flow line, made new bridle, moved walking beam and rebalanced unit. Well started pumping at 5:00 pm.

Recap of Workover:

Heath 4864'-82' (open to casing to flow off)
Madison A Zone 5500'-20' (isolated)
Madison B-1 5608'-17' (pumping)
Madison B-2 5626'-38' (pumping)

Inital Potential:

Madison 35 BOPD 360 BWPD Heath estimate possible 5 barrels per week.

WORKOVER HISTORY NO. 5

Lease & Well Number: HUBER NO. 1

Field: East Poplar County: Roosevelt State: Montana

Well Location: se nw Section 10, T29N, R51E

STATUS PRIOR TO PRESENT JOB:

Date of Last Workover: August 22, 1972

TD: 5953' PBTD: 5650' (CIBP) KB: 9'

Producing Zone: Heath, Madison "A", B-1 and B-2

Latest Test: Pumping 25 BOPD 2373 BWPD with Reda Pump

JUSTIFICATION OF WORKOVER:

Squeeze off "A" Zone and Heath Zone to shut off water.

SUMMARY OF WORKOVER:

- 1-25-75 Rig up and pull Reda Pump.
- 1-26-75 Run in with Bridge Plug and Packer. Release rig to go to Vida.
- 1-31-75 Rig up.
- 2-01-75 Pulled 15 joints, set RBP, pulled 1 joint, set PKR, swabbed well to pit.
- 2-03-75 Swabbed well to pit, (Heath Zone), received 70 bbl fluid, trace oil in 3 hours, swabbing from 2500'. Reset RBP & PKR and swabbed "A" zone. Received 85 bbls fluid, trace oil in 3 hours.
- 2-04-75 Pulled RBP & PKR, went back in with drillable bridge plug and PKR. Plug would not set.
- 2-05-75 Pulled PKR and plug, installed new drag springs on plug, ran back in with plug and packer. Set plug at 5555'.
- 2-06-75 Tested plug to 1500, pulled 8 joints, set packer at 5362'. Pumped down casing to get injection pressure on Heath. Pumped cement down tubing to squeeze "A" Zone. Could not get well to take fluid at 3500 psi. Try to reverse out cement, Heath zone started thiefing. Circulated down tubing and out casing. Cleared casing and recleared tbg. Left 3 bbl cement in casing below packer. Staged cement in well at 1 bbl every 5 to 7 minutes. Well would not squeeze. Over displaced cement ½ bbl. Well did not squeeze or break down. Released packer and moved to 4735'. Well did not flow back. Pressured casing to 1000#, casing held. Pumped 1.5 bbl per min. into Heath at 2500 psi (injection test).

- 2-07-75 Came out with tubing, ran back in with RBP and PKR.
 Set RBP at 4921'. Tested plug and spotted 2 sacks sand on it. Set packer at 4735'. Spotted cement and squeezed Heath zone to 2400 psi. Shut in over night.
- 2-08-75 Released pressure off well, came out of hole with packer. Went back in with bit and scraper. Rigged up drilling equipment.
- 2-10-75 Drilled out cement, circulated RBP clean, pressured to 1000# psi, held. Rigged down drilling equipment, started out of hole with bit and scraper.
- 2-11-75 Finished pulling bit and scraper, went back in to pick up RBP. Had to circulate hole with power sub to get RBP released. Pulled RBP.
- 2-12-75 Went back in with bit and scraper to drill out cement on "A" zone. Drilled out 2' cement, went in and tagged CIBP. Pressured well to 800, went to 700 in 15 min. (no squeeze on "A" zone). Pulled bit and scraper.
- 2-13-75 Ran back in with PKR, set it at 5426'. Swabbed well at rate of 23 BPH from 3500' (water).
- 2-14-75 Rigged up Halliburton, pumped water to fill hole, ran out of water, waited for another load of water. Spotted acid, pressured PKR, pressure would not hole on tubing. Reset PKR, still would not hold. Reversed out acid. Came out of hole with PKR, found collapsed tubing jt. Ran PKR back in, set at 5486', pressured casing to 1000, tubing to 2000, pressure held. Spotted acid. Pressured tubing to 3000, bled off slow. Pressured to 4000, well started to take fluid. Staged acid at 4000 psi for 15 min., got 1½ bbl in. Pressured to 4200, well broke down to 3000 at 3½ BPM. Over displaced acid 4 bbl, shut well in.
- 2-15-75 Reset PKR at 5360' for squeeze. Squeezed "A" Zone to 3900 psi. Reversed out excess cement. Well took 17 sx. Repressured tubing to 1500, shut well in.
- 2-17-75 Pulled packer, went in with bit and scraper. Tagged cement at 5360' started drilling out cement.
- 2-18-75 Drilled out cement, started drilling on CIBP.
- 2-19-75 Drilling on plug all day, stopped making hole, came out with bit.
- 2-20-75 Went in with clusterized shoe, drilled rest of plug and started drilling on old Model "D" PKR that was stuck in hole.
- 2-21-75 Drilling on "D", stopped making hole, shut down for day as it was too windy to pull tubing.

- 2-22-75 Came out with shoe, went in with overshot to jar PKR loose. Latched onto fish and jarred for 1/2 hour. Pulled 95,000 on fish, let set for 1/2 hour. Jarred again for 1/2 hour, started moving packer. Started jarring PKR out of hole, tubing parted. Pulled tbg to put on another over shot.
- 2-24-75 Went in and latched onto parted tubing. Worked PKR to try to free it up. Could not get PKR to come loose. Drilling line on rig got bad, could not continue to jar. Tryed to release bottom overshot, could not release it after 2½ hours working it. Shut down to replace drill line.
- 2-26-75 Jarred on packer for 2 hours, no progress. Worked over shot for 2 hours, no progress. Called Dia-Log to cut off tubing below overshot. Waited on Dia-Log for 3 hours. Dia-Log tore up transmission in truck as they pulled on location. Shut down for truck repair.
- 2-27-75 Dia-Log could not get truck fixed, called Go-International to cut tubing. Could not get below 5385' with cutter. Waited for smaller cutter, went back in but still could not get down below overshot. Could not release upper overshot either, cut tubing off at 5247' and pulled top overshot out.
- 2-28-75 Went in with pack-off type overshot, accillarator sub and drill collars. Circulated hole. Latched onto tbg. started jarring and circulating, packer would not move. Jarred top overshot off, came out to redress.
- 3-01-75 Ran back in latched onto tubing, jarred on PKR, still would not move. Went in with tubing cutter, still could not get cuter below bottom overshot. Released top overshot, shut down for orders.
- 3-03-75 Latched onto tubing again, rigged up Dia-Log to try to spud down to 5385'. Got down and located packer still at 5565'. Any headway we thought we made was caused by tubing stretch. Went in with back off tool, backed off tubing at change over sub at 5552'. Came out of hole with tubing. Left fish, overshot, bumper sub and jars in hole. Went back in with another set of jars, acc. sub and drill collars and screwed into change over sub on top of first set of jars.
- 3-04-75 Jarred on PKR for 1½ hour, fish came loose. Came out of hole with tools and guts of Model "D" PKR. Went in with mill, milled on PKR for one hour, made about 3'. Got cement and iron in returns. Material was probably from old Model "N" packer that was drilled up prior to this job.

- 3-05-75 Milled on packer for 6½ hours, made 1' of hole. PKR went down hole about 3½'. Milled for one hour did_not make any hole. Changed out mill.
- 3-06-75 Milled on packer for 1½ hours, packer dropped a little. Pushed packer down hole to 6540'. Came out of hole and layed down all tools. Picked up Reda Pump.
- Reda Pump back as follows:

 Reda Motor & Pump Assembly (Btm of Reda at 5577')

 1 6' x 2-7/8" EUE 8rd., sub

 174 jts 2-7/8" EUE 8rd., tbg. 5519'

 Hooked up well head and Reda cable to panel. Reda would not run. Found broken jumper on power line.

 Called REA to fix it. Started Reda Pump.
- 3-08-75 Reda pumping off bad, made 11 oil, 245 water in 14 hours.
- 3-09-75 thru
- 3-11-75 Reda pumping off even with well head choked. Shut Reda down will acizide well.
- 4-01-75 Rigged up pulled Reda pump. Cable bad. Had to pull pump wet as bar would not go down to shear bleeder valve. (Bad joint of tubing).
- 4-02-75 Went in with packer, acidized well with 1000 gal. 15% acid, shut well in.
- 4-03-75 Swabbed well at rate of 17 BPH with fluid level at 1000'. Started out of hole with packer.
- 4-04-75 Finished pulling packer, start in with Reda Pump.
- 4-08-75 Well pumping 30 BOPD, 1295 BWPD.

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WORKOVER HISTORY NO. 6

Lease & Well Number: Huber No. 1

Field: East Poplar County: Roosevelt State: Montana

Well Location: SE NW Section 10, T29N, R51E

STATUS PRIOR TO PRESENT JOB:

Date of Last Workover: _July 4, 1975

TD: 5953' PBTD: 5650' (CIBP) PBTD: 5627' (cement) KB: 9'

Producing Zone: Madison B-1 and B-2

Latest Test: Pumping 3 BO 405 BW

JUSTIFICATION OF WORKOVER:

Squeeze off existing perforations, log and reperforate.

SUMMARY OF WORKOVER:

- 5-28-77 Rigged up and pulled rods and tubing.
- 5-31-77 Picked up 4 drill collars, concave mill and jars. Ran in hole and tagged junk at 5635'. Drilled 2'6" in two hours to 5637.5'.
- 6-01-77 Drilling on junk, drilled to 5639'.
- 6-02-77 Drilling on junk, drilled to 5641', tripped tbg. to change mill.
- 6-03-77 Drilling on junk, drilled to 5655'.
- 6-04-77 Drilling on junk, drilled to 5657', tripped tbg to change mill.
- 6-06-77 Drilling on junk, drilled to 5660', C.O.H. with tbg. and mill.
- 6-07-77 W.I.H. with shoe and l joint of wash pipe, cleaned out to 5720', C.O.H. with tubing and tools, released Acme Tool.
- 6-08-77 Shut down, could not get loggers today.
- 6-09-77 Rigged up Schlumberger ran TDT log from 5720'to 4800'. W.I.H. with tubing and PKR, set PKR at 5458'.
- 6-10-77 Rigged up Halliburton, established injection rate of 2 BPM at 2500 psi. Mixed 100 sx Class "G" cmt and squeezed well to 3500 psi, reversed out 60 sx cmt to pit. Repressured to 2500 psi, formation still taking cement. Got well to squeeze to 2000 psi. Pulled 4 stands. SDFD.

- 6-11-77 Trip out of hole with tubing and packer. T.I.H. with bit and scraper. Cleaned out to 5737'.
- 6-13-77 T.O.H. with bit and scraper, rigged up Schlumberger and perforated 5664'-68' 4 shot per foot with Hyper-Jet. T.I.H. with tubing and packer. Set tail pipe at 5683' packer at 5652'.
- 6-14-77 Swabbed well down in 3 pulls. Rigged up Halliburton. Spotted 250 gallons 15% acid over perfs and let soak for 10 minutes. Displaced acid, break down 2900, max pressure 3000#, average pressure 2800, ISIP 2650, 5 min. 2000, 15 min. 1900. Rig to swab (well on vacuum after 1 hour). Swabbed 20 bbls fluid to TD, swabbed 1/2 BFPH, water did not receive total load back, no acid back.
- 6-15-77 SITP 10, fluid level 5300'. Pulled 2 bbls fluid 60% oil. No fluid entry for next 3 hours. Rigged Dowell to acidize. Pumped 500 gallons 28% acid in at 3 BPM 2800 psi. During acid job packer released, continued pumping acid until perforations were cleared. Released packer and reversed 45 bbls water down casing. Reset packer and rigged to swab. Swabbed acid, gas and water with trace of oil for 3 runs, well dried up. Received 21 bbls load back, well swabbed 1/4 to 1/2 BPH for last 3 hours, trace of oil.
- 6-16-77 Reset packer at 5580' swabbed B-1, B-2 & B-3 Zones. Got acid gas and spent acid on third run, indication acid went into old B-2 perfs around packer. Swabbed 90 BF in 4 hours (water) T.O.H. to change PKR. T.I.H. with new packer.
- 6-17-77 SITP 50 fluid level at surface. Swabbed well all day 15 BWPH trace oil.
- 6-18-77 Set packer at 5653' rigged up Dowell to re-acidize. Spotted 500 gallons of 28% acid. Pressure came up on casing while trying to displace acid. Reversed out acid. Reset packer at 5580', casing would hold 1500 psi and well would not circulate. Reset packer at 5653', well would circulate. Well apparently communicated between B-2 and B-3 perfs behind pipe. T.O.H. with tubing and packer to remove tail pipe. T.I.H. with tubing and packer set packer at 5458'.
- 6-20-77 Rigged up Halliburton to squeeze. Establish injection rate of 2½ BPM at 1900 psi. Mixed 50 sx Class "G" cement. Squeezed well to 2000 psi. Pulled 5 stands pipe. Tubing pressure 600 psi. SDFD.
- 6-21-77 T.O.H. with tubing and packer. T.I.H. with bit and scraper cleaned out well to 5627'.

- 6-22-77 Rigged down drilling eugipment. Lost well head stud down casing while removing D.H.P. T.I.H. easy studicate with scraper but had to remove B.O.P. to get it through casing head. Rigged up GoInternational perforated 5608'-16', 4 shots per foot. T.I.H. with tubing and packer. Set packer and swabbed well dry in 4 runs.
- 6-23-77 SITP 0 fluid level 4200'. Rigged up Halliburton and acidized with 500 gallons 15% acid. Displaced acid at 1/4 BPM at 2500 psi. ISIP 2400, 15 min 900. Swabbed 96 BF in 6 hours 10 to 39% oil. Last 2 hrs 9 BFPH.
- 6-24-77 SITP 25 fluid level 1000, swabbed well at rate of 9 BFPH 15% oil. T.O.H. with tubing and packer.
- 6-25-77 T.I.H. with production string as follows:

 1 joint 2-7/8" EUE 8rd tbg 5611'

 Baker anchor 5580'

 Seating Nipple 5577'

 178 joints tubing

 133 3/4" rods

 88 7/8" rods.

 Put well on production.

Procedure to Deepen Huber #1 to Mission Canyon

- 1. MIRU workover unit.
- 2. POOH w/88 7/8" rods & 131 3/4" rods.
- 3. Release tbg anchor @ 5580' & POOH w/anchor & 178 jts 2-7/8" tbg.
- 4. MIRU circulating equipment & 2-7/8" rental drill pipe (± 6500').
- 5. PU 6-1/4" bit & scraper. Make bit & scraper run to PBTD @ 5650'. Circulate hole clean. POOH
- PU cement retainer. RIH on tbg & set @ ± 5580'.
- Sting into retainer. Test backside to 1000#. Establish rate down tbg.
- 8. If backside doesn't test, POOH w/tbg & stinger.
- 9. PU RBP & test pkr. Set RBP @ 5500' & test.
- 10. Proceed uphole to isolate leaks, if RBP tests ok.
- 11. Repair leak in csg as per Denver recommendations.
- 12. Once 7" csg tests good remove RBP @ 5500'.
- 13. PU stinger & GIH & circulate on top of retainer. Sting into retainer, pressure up on backside & establish rate down tbg.
- 14. Mix & pump 50 sxs Class 'G' cement in perfs @ (5608-16') and squeeze off.
- 15. WOC. Drill out retainer @ 5580' & test squeeze.
- 16. Drill out Baker Model 'K' cement retainer @ 5650'. Begin mixing mud & prep. to deepen to Mission Canyon.
- 17. Drill out bottom of 7" & drill to 6450'.
- 18. Condition hole to run logs.
- 19. Run a GR-Neutron log.
- 20. MIRU liner to be ran. (5" 11.5#/ft) Can ren 4-42 00 059. Kill
- 5500' 21. GIH w/liner (approximately 800'). Run liner from TD ± 6450' to 5650.
- 22. Cement liner as per service company recommendation.
- 23. WOC. GIH w/bit & scraper to check PBTD. Drill out to bottom & circ. hole clean.

- 24. Run CBL to check bonding.
- 25. GIH w/gamma gun & perf Mission Canyon as per OKC Engineering's recommendations.
- 26. Treat Mission Canyon as per need.
- 27. GIH w/following injection string assembly:

Model 'D' pkr @ 6150' 2-7/8" IJ tbg (550') 6150' to 5600' x/o 2-7/8" tbg 5600' to surf.

- 28. Wait on all government approvals & OK's.
- 29. Put well on injection.

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GILLINGS

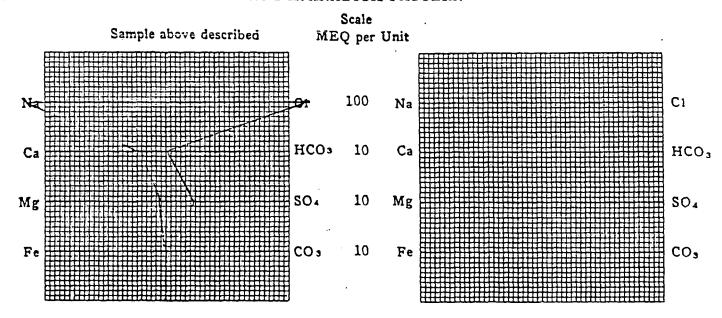
CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

WATER ANALYSIS REPORT

WELL NO Hub FIELD Pop COUNTY Roo	Polumbus Corpora er No. 1 lar sevelt tana	I	DATE November LOCATION FORMATION INTERVAL SAMPLE FROM	Sec. 8-28N-5 Heath - Madi	
REMARKS & CONC. Wat	LUSIONS: Clear er sample separate API gravity of Water content o Total sulfur, %	crude oil @ f crude oil	60 °F , % by volume	9	0.0
Cations Sodium	mg/1 - 64950 2 - 704 - 1046 - 151	meq/1 825.34 18.02 52.20 12.41	Anions Sulfate Chloride Carbonate Bicarbonate Hydroxide	22	0 56.16 0 2848.20 0 0
Total dissolved solids, NaCl equivalent, mg/	mg/1	170659 169359 6.3	Specific resistance Observed Calculate		0.065 ohm-meters 0.056 ohm-meters

WATER ANALYSIS PATTERN



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DOY. LL DIVISION OF THE DOW CHEMICAL C. APANY

RVICE AND ∫Please indicate on all remittances SERVICE ORDER RECEIPT VOICE NUMBERIS ST. 75 and send to: P.O. BOX 21 TULSA, OKLAHOMA 74102 RMS: NET 30, ADD LEGAL INTEREST THEREAFTER. SHIPPED VIA SERVICE FROM DOWELL STATION OUTPOST CUSTOMER ORDER NO. LL NAME AND NUMBER OGATION AND POOL **SERVICE ORDER** IMPORTANT: SEE OTHER SIDE FOR TERMS & CONDITIONS
I have read, understood and agreed to the terms & conditions printed on the reverse side hereof and represent that I have full authority to accept same and sign this order.

CUSTOMER DUNTY, CITY (IF WITHIN CITY LIMITS) & STATE CUSTOMER'S ADDRESS CITY, STATE & ZIP CODE SERVICE INSTRUCTIONS: ITEM NO. QUANTITY UNIT Material, Equipment and Services Used **Unit Price AMOUNT** 3100 325,00 4 25. 50 ٠٠., SUB TOTAL Gallons License Fee Gallons License Fee RECEIPT: THE UNDERSIGNED HEREBY CERTIFIES THAT THE MATERIALS AND EQUIPMENT LISTED ABOVE WERE RECEIVED AND THE SERVICES WERE PERFORMED IN A WORKMANLIKE MANNER. Tax on \$ Tax on \$ CUSTOMER 64272 TOTAL * WL-260-K PRINTED IN U.S.A. \$621.00

SEND ALL REMITTANC (O

INVOICE & TICKET

P. O. DRAWER 1431

73598

	N OF HALLIBURTON COM	PANY	UNCAN, OKLAHOMA	73533 NO.	13	<u> </u>	•
DATE 7	CUSTOMER ORDER NO.	WELLING, AND FARM		COUNTY		STATE	1
3-29-69 SERVICES FROM	CODE	SALES FROM CODE	BULK MATERIALS	10-00-0-0	LT IDE	IVERY TICKET	<u>#</u>
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ONLY			ORIG. &	Cash discount a	illowed If (pald by due d	ote.
USE			D 2 1	Tox adjustment			
Z	e.		3 EXEMPT FLUID Must be signed true, Either oil or exid was'u	only if process license fee does produced from some formation it and in an unaltered condition as	not apply and n same field as fractions fluid	conditions set forth be well being treated. In this treatment,	or water
DUNCA			FYEMPT_GA				
			10. COPIES			_	
TYPE AND PURPOSE OF	acie	1 fol		10N/100	0 ;		
			X	Customer or His	Agent		
PRICE REF.	SECONDARY REF. OR PART NO.	DESCRIPTION	l Unitu	2 UNITS	UNIT PRICE	. AMOUN	r
R216-010		Pumping Charge	1 sung	1	80.00	280	00
R000-117		Mileage	100 mi		.75	15	00
R201-004		acid Reg 1570	250 sul	1	.36	90	00
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x 1	d/ 1001 -	\mathcal{L})F	то	TAL		· ·
Custo	omer or fils Agent	PAGE 1	JF		U-		.

WORK ORDER CONTRACT. AND PRE-TREATMENT DATA

DISTRICT D lenders, Mont	_	• ∴	••	•	DATE	3 - J	9-69
TO: NALLIBURTON SERVICES YOU ARE HEREBY REC	QUESTED TO F	URNISH E	QUIPMENT A	ND SERVI	CEMEN TO I	DELIVER A	ND OPERATE
THE SAME AS AN INDEPENDENT CONTRACTOR TO:	AP	olun	nbus	Ir		· •	521
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIA	ALS FOR THE	PURPOSE	OF SERVICE		·		-
WELL NO. LEASE Huber		SEC.	10	TWP	29N	RAN	10E 51E
FIELD E Popular COUNTY Revoritt 6	STATE ME	rtina	OWNED	BY E	AP	olusa	buo.
THE FOLLOWING INFORMATION WAS	S FURNISHE	D. BY'TH	E CUSTO	MER OR	HIS AGEN	IT ∵ то	MAX. ALLOW.
FORMATION: NAMETYPE	<u> </u>	USED	- "=""	. 5.22	FROM		· P,8.1.
FORMATION THICKNESS FROMTO	CASING !	asid	23-	7"	0 %	5,629	1000
PACKER: TYPE Bahn Plod SET AT	LINER						<u> </u>
TOTAL DEPTH 56.29 MUD WEIGHT	TUBING	lead	6:5	27/8	0		3500
BORE HOLE	OPEN HOL	.E					внотв/гт.
INITIAL PROD: OIL BPD HIO BPD GAS MC	PERFORAT	IONS.	•			. ** .	
PRESENT PROD: OIL' BPD. HIO BPD. GAS MC	PERFORAT	iona		•	4870	48 74	5
	PERFORAT	IONS					
PREVIOUS TREATMENT: DATETYPE		•	MATERIA	LS		·	
TREATMENT INSTRUCTIONS: TREAT THRU TUBING [] ANNULUS []	CASING TUI	BING/ANN	ULUS HYD	PRAULIC H	ORSEPOWE	RORDEREC	,
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		•					
CUSTOMER OR HIS AGENT STATES THE WELL IS IN PROPER CONDI	ITION TO REC	EIVE THE	PRODUCTS,	SUPPLIES,	MATERIALS	S. AND SE	RVICES
THIS CONTRACT MUST BE	E SIGNED BEFO	RE WORK	IS COMMEN	CED			· .
As consideration, the above-named Customer agrees:	•	. • •	;·	·		•	••••
(a) To pay Halliburtan in accord with the rates and terms stated in Halliburtan's	current price lists.			•			· .
(b) Halliburtan shall not be responsible for and Customer shall secure Halliburtan Customer), unless caused by the willful misconduct or gross negligence of arising from subsurface damage.							
(c) Customer shall be responsible for and secure Halliburtan against any liability					ng from subsu	rface pressure	o, losing contro
 (d) Customer shall be responsible for and secure Halliburton against any and all I nature thereof, arising from a service operation performed by Halliburton her 	liability of whatso		•		a subsurface	trespass, or c	an action in the
(e) Customer shall be responsible for and secure Halliburton against any liability (including, but not limited to, injury to the well), or any damages whatsoeve in the well hole, unless such damage shall be caused by the willful miscone.	ity far injury to o or, irrespective of	cause, growii	ng out of or in	than employe any way con	es of Hallibur inected with th	rton, or dami e use of radi	age to propert oactive materia
(f) Halliburton makes no guarantee of the effectiveness of the products, supplied			•	alment or se	rvices.		
(g) At Customer's expense, to recover any Halliburton equipment, tools or instrum such equipment, tools or instruments unless such loss or damage is caused by	ments which are lo	ost or damag Halliburton.	ed in the well,	and if reco	very cannot be	had, to pay	Halliburtan fo
(h) Holliburton warrants only title to the products, supplies and materials and the implied, of merchantability, fitness or otherwise which extend beyond those stoor for damages resulting from its negligence with respect to the use of such return to Halliburton, or at Halliburton's option, to the allowance to Custon.	tated in the immer products, supplies	diately prece or material	ding sentence. I s to the replac	Halliburtan li ement of su	mits its liabilit ch products, st	y for breach (of any warrant
(i) Upon Customer's default in the payment of Customer's account 60 days after revent it becomes necessary to employ an attorney to enforce collection of suc of the amount of the unpoid account.	receipt of invoice,	such accoun	t will be subje	ct_to interes	after date of		
(i) Halliburton shall not be bound by any changes or modifications in this cont officer of Halliburton.	tract, except when	e such chan	ga or modifica	ilon is modo	in writing by	a duly autho	orized exocutiv
				orner d.	TUI	-DAGW	
	A ath	IAVE REAL AT I AM A '	UTHORIZED	TO SIGN	THE SAME	HACT AND	REPRESEN MER'S AGENT
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DIVISION OF HALLIBURTON COMPANY DUNCAN OKLAHOMA

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO		72	12	•
INVOICE & TICKET I	NO.		9	3

Montanz 4-1-Glendire YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE HALLIBURTON SERVICES THE SAME AS AN INDEPENDENT CONTRACTOR TO: CUSTOMER AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING Huber 29 N VELL NO. LEASE OWNED BY HELD COUNTY. STATE THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT MAX. ALLOW NEW TORMATION Heath P.B.I. ORMATION CASING 5629 used LINER ACKER: TYPE BAKEY Traduction SET AT C.5 # TUBING JSec. OTAL DEPTH: 5629. MUD WEIGHT OPEN HOLE SHOTS/FT. ORE HOLE PERFORATIONS NITIAL PROD BPD. H₂O BPD GAS 4870 PERFORATIONS RESENT PROD: BPD. HzO BPD. GAS PERFORATIONS REVIOUS TREATMENT: DATE TYPE MATERIALS REATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED SUSTOMER OR HIS AGENT STATES THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED \s consideration, the above-named Customer agrees: To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful miscanduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

- Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of a subsurface tresposs, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whotsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or services.
- At Customer's expense, to recover any Halliburton equipment, tools or instruments which are lost or damaged in the well, and if recovery cannot be had, to pay Halliburton for such equipment, tools or instruments unless such loss or damage is caused by the negligence of Halliburton.
- Halliburton warrants only fille to the products, supplies and materials and that the same are free from defects in workmanship and materials. There are no warranties, express or implied, of merchantability, fitness or otherwise which extend beyond those stated in the immediately preceding sentance. Halliburton limits its liability for breach of any warranty or for damages resulting from its negligence with respect to the use of such products, supplies or materials to the replacement of such products, supplies ar materials on their return to Halliburton, or at Halliburton's option, to the allowance to Customer of credit for the cost of such products, supplies or materials.
- Upon Customer's default in the payment of Customer's account 60 days after receipt of invoice, such account will be subject to interest after date of invoicing until paid. In the event it becomes necessary to employ an attorney to enforce collection of such account, Customer agrees to pay all collection costs and attorney fees in the amount of 20 per cent of the amount of the unpaid account.
- Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

HAVE READ AND UNDERSTAND THIS HAT I AM AUTHORIZED TO SIGN THE AND REPRESENT CUSTOMER'S AGENT SIGNED 69

We carrify that the Fair Labor Standards Act of 1938, as amended, has been compiled with in the production of goods and/or with respect to services furnished under this contract.

TIMULATION SERVICE HALL TON DISTRICT					STAGE NO	
REATING REPORT HALLI SURTON DIVISION	<u></u>) en	ver_	 -	PAGE NO	
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REATING RE	PORT HALLIBURTON DIVISION	-W.	<u> </u>	مو	^	· · · · · · · · · · · · · · · · · · ·	PAGE NO	
FORM 1910	· •	SEC.	ĪŦ	WP.	RNG.	COUNT	Y	STATE
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18311

ATTACH TO TICKET NO.

STAGE NO.

PAGE NO.

Gillette

Denver

HALLIBURTON DISTRICT

HALLIBURTON DIVISION.

FIELD			SEC.	τv	VP.	RNG.	cour	TY	STATE
							R	ssevelt	Mont.
		MATERIALS USED	CALLE	ם סט	DAT		CATION	JOB STARTED DATE	JOS COMPLETED
TYPE J	юв	MY-T-Frac			TIM		O TIME	1216 TIME	1216 TIME
		el Water DENSITY LB/GAL-API						D EQUIPMENT	
	FLUID	Water DENSITY LB/GAL API					EMPL. NO.	UNIT NO. & TYPE	LOCATION
PROP.	TYPE S	and size 10/20 LB				son	ļ		Gillette
PROP.		andsize8/12 LB				ert	 	8539 HT	
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		HYDRAULIC HORSEPOWER					WELL	DATA	
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HALLIBURTON SERVICES

STIMULATION SERVICE

TREATING REPORT

HALLIBURTON

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

INVOICE & TICKET NO. 2/3/3/

DISTRICT Clerkine, - out

9-26-71

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THE SAME AS AN INDEPENDENT CONTRACTOR TO: 1010 COT CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

11.1

WELL NO.	LEASE				SEC		TWP		RAN	GE
FIELD POPUL	brc	OUNTY ROOM	STA	TE MOA	1	OWNED	BY Pol	unbu	1 Car	-p
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PREVIOUS TREATMENT: DATE ______TYPE _______MATERIALS _____
TREATMENT INSTRUCTIONS; TREAT THRU TUBING | ANNULUS | CASING | TUBING/ANNULUS | HYDRAULIC HORSEPOWER ORDERED

Release RBP Cyf Type

CUSTOMER OR HIS AGENT STATES THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- (b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.
- (c) Customer shall be responsible for and secure Halliburton against any limbility for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- (d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- (e) Customer shall be responsible for and secure Halliburtan against any liability for injury to or death of persons, other than employees of Halliburtan, or damage to property (including, but not limited to, injury to the well), or any damages whatsoover, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburtan.
- (f) Halliburton makes no guarantee of the offectiveness of the products, supplies or materials, nor of the results of any treatment or services.
- (g) At Customer's expense, to recover any Halliburton equipment, tools or Instruments which are lost or damaged in the well, and if recovery cannot be had, to poy Halliburton for such equipment, tools or instruments unless such loss or damage is caused by the negligence of Halliburton.
- (h) Halliburion warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. There are no warranties, express or implied, of merchantability, fitness or otherwise which extend beyond those stated in the immediately preceding sentence. Halliburton limits its liability for breach of any warranty or for damages resulting from its negligence with respect to the use of such products, supplies or materials to the replacement of such products, supplies or materials on their return to Halliburton, or at Halliburton's option, to the allowance to Customer of credit for the cost of such products, supplies or materials.
- (i) Upon Customer's default in the payment of Customer's account 60 days after receipt of invoice, such account will be subject to interest after date of invoicing until paid. In the event it becomes necessary to employ an attorney to enforce collection of such account, Customer agrees to pay all collection costs and attorney fees in the amount of 20 per cent of the amount of the unpaid account.
- (i) Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

HAVE READ AND UNDERSTAND THE CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED

CUSTOMER

DATE

We certify that the Fair Labor Standards Act of 1938, as amended, has been compiled with TIME A.M. Time.

A.M. Time.



SEND ALL REMITTANCES TO P. O. DRAWER 1431 DUNCAN, OKLAHOMA .73533 PAGE 1 OF

INVOICE & TICKET

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TYPE Gun Bullet RUNS	dersigned agrees as follows: rows: reinafter referred to as the customer, the undersigned agrees to pay attornotics that he is the owner of the well or the undersigned agrees to pay attornotics that he is the owner of the well or the and that all depth measurements is the sheld liable for injury to persons as to reimburse you for the reasonable of the foregoing constitutes the entire of the entire of th	reinafter referred to as the customer, agrees to pay y be not paid within the term fixed by the Invoice, interest the undersigned agrees to pay attornoy's fees of twe less that he is the owner of the woll on which the work and that all depth measurements shall be made ut as existing in the perfermance of the work ordered, be held liable for injury to persons or property aris to reimburso you for the reasonable value of any of the foregoing constitutes the entire agreement and persons or property arise to reimburso the second persons or property arise to reimburso 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